Government of Karnataka

BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:- IMPROVEMENTS, RESTORATION TO RAODS AND DRAINS AT DASARAHALLI, SARAIPALYA AND RACHENAHALLI SURROUNDING AREAS IN WARD NO. 06

Project Division, Yelahanka Zone

EMB

PREETHI CAD CONSULTING ENGINEERS PVT.LTD.

48/43, 6th Main Road, JnanajyothiNagaraFax : 080 - 23340685, Cell : 98442 66050E-mail : preethicad99@gmail.com ,JnanaBharathi, Bangalore – 560 056. Tel: 080-23240109,

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Work: RCC improvements, Restoration to roads and drains at Dasarahalli, Narasapura and Rachenahalli Surrounding Areas in ward no. 09

ABSTRACT

No.	Description	NOS	LENGTH	WIDTH	DEPTH	QUANTITY	UNIT	RATE	AMOUNT
1	Removing and taking stone slabs of drains and pointing in CM (1:3) (P.No-27) (No-5.31.1 KPWD SR 2018-19)								
	Vide postmeasurement page no.21 to 23					1547.10	Sqm	105.00	162442.50
2	KSSR 5.2.1: Earthwork excavation by manual means for roads, drains & similar works in ordinary soil uncleared surface leveled and soles neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.(I No-19.1, P No-143), 0.5m to 1m								
	Vide postmeasurement page no. 24 to 11					2787.87	Cum	230.00	641330.10
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (P.No-27,I No-5.31.1, KPWD SR 2018-19), 25mm thick								
	Vide postmeasurement page no. 12 to 13					838.48	Sqm	700.00	586936.00
4	KSSR 4.2.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220Kgs. with 40mm and down size graded granite metal coarse aggregates @0.85Cum and fine aggregates @ 0.40Cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-33,I No-4.2,KPWD SR 2018-19)								
	Vide premeasurement page no. 14 to 15					347.01	Cum	5500.00	1908577.00
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 320 kgs. with 20mm and down size granite metal coarse aggregates at 0.85 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2300, including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-27,KPWD SR 2018-19)								
	Vide postmeasurement page no. 19 to 28					732.95	Cum	7000.00	5130641.25
6	KSRBS M2.200-8. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I No-28.8.2,P No-229)								
	Vide premeasurement page no. 29 to 36					49.23	Tn	72500.00	3569310.85
7	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Vide postmeasurement page no. 37 to 39					1532.87	Cum	2000.00	3065730.00

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	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 40mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)				
	Vide premeasurement page no. 40 to 42	**400.11**	**Cum**	**5000.00**	**2000550.00**
	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19), 10kms lead				
	Vide premeasurement page no. 43 to 45	**1736.21**	**Cum**	**50.00**	**86810.51**
	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)				
	Vide premeasurement page no. 46 to 51	**12951.24**	**Sqm**	**30.00**	**388537.20**
11	Providing, laying, spreading and compacting Stone dust / Grit 4.75 mm to 0.075 mm specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers. (P.No-II,Sl No-45)				
	Vide premeasurement page no. 52 to 60	**1921.82**	**Cum**	**900.00**	**1729641.60**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)				
	Vide premeasurement page no. 61 to 71	**4837.92**	**Cum**	**2150.00**	**10401519.40**
13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 03-01-2020				
	Vide premeasurement page no. 72 to 78	**18917.20**	**Sqm**	**28.00**	**529681.46**
17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 03-01-2020				
	Vide premeasurement page no. 79 to 85	**756.69**	**Cum**	**8000.00**	**6053502.40**

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Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

PREETAM ENG CONSULTING
ENGINEERS PVT. LTD.

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of Work: Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

Pre Measurements

	Description	No's	LENGTH	WIDTH	DEPTH	QUANTITY	UNIT	RATE	AMOUNT
	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-S.33,KPWD SR 2018-19)								
	Vide postmeasurement page no.01 to 03					1547.10	Sqm	105.00	162445.50
	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 10km lead								
	Vide premeasurement page no. 04 to 11					2797.87	Cum	220.00	615630.96
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Vide premeasurement page no. 14 to 18					347.01	Cum	5500.00	1908577.00
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I No-28.8.2,P No-229)								
	Vide premeasurement page no. 29 to 36					49.23	Tn	72500.00	3569310.65
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19), 10kms lead								
	Vide premeasurement page no. 43 to 45					1736.21	Cum	50.00	86810.51
10	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)								
	Vide premeasurement page no. 46 to 51					12951.24	Sqm	30.00	388537.20
11	Providing, laying, spreading and compacting Stone dust / Grit 4.75 mm to 0.075 mm specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers. (P.No-II,Sl No-45)								
	Vide premeasurement page no. 52 to 60					1921.82	Cum	900.00	1729641.60
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Vide premeasurement page no. 61 to 71					4837.92	Cum	2150.00	10401519.40

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13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 03-01-2020				
	Vide premeasurement page no. 72 to 78	**18917.20**	**Sqm**	**28.00**	**529681.46**
19	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.(I No-18.47,P No-140)				
	Vide premeasurement page no. to 86 to 88	**829.98**	**Cum**	**941.41**	**781346.76**

Contractor

Consultant

Asst. Engineer

Asst Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

PREETHI CAD CONSULTING
ENGINEERS PVT. LTD.
48/43, 6th Main Road, Jnanajyothi Nagar,
Jnana Bharathi, Bangalore - 560 056.

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Bruhat Bangalore Mahanagara Palike

Executive Engineer Project Division Yelahanka

MEASURMENT SHEET

2nd AND PART BILL

e of Work: Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

EMB

Estimation Cost :	Rs1500.00Lakhs
Job Code :	006-20-000179 Indent No.42673
Head Of Account :	P3761 Under Subra Bengaluru Grant
Work Order No :	EE/(PROJECT)/YnK/Zone/WO/143/2020-21 Date :24/11/2020
Name Of Agency :	Preethi Cad Consulting Engineers Pvt. Ltd 48/43, 6th Main Road, JnanajyothiNagara, JnanaBharathi, Bangalore – 560 056
Measurement Recorded on :	

Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
Measurement Recorded on :						
Removing and refixing stone slabs of drains and pointing in CM (1:3)						
Dasarahalli (bhuvaneshwari nagar)						
Ch 00.00m to Ch 15.00m **(3rd cross road) (W0455)**		2	15.00	0.90		27.00
Ch 15.00m to Ch 30.00m		2	15.00	0.90		27.00
Ch 30.00m to Ch 45.00m		2	15.00	0.90		27.00
Ch 45.00m to Ch 60.00m		2	15.00	0.90		27.00
Ch 60.00m to Ch 75.00m		2	15.00	0.90		27.00
Ch 75.00m to Ch 90.00m		2	15.00	0.90		27.00
Ch 90.00m to Ch 105.00m		2	15.00	0.90		27.00
Ch 105.00m to Ch 120.00m		2	15.00	0.90		27.00
Ch 120.00m to Ch 135.00m		2	15.00	0.90		27.00
Ch 135.00m to Ch 156.90m		2	21.90	0.90		39.42
Ch 00.00m to Ch 15.00m **(4th cross road) (W0461)**		2	15.00	0.90		27.00
Ch 15.00m to Ch 30.00m		2	15.00	0.90		27.00
Ch 30.00m to Ch 45.00m		2	15.00	0.90		27.00
Ch 60.00m to Ch 75.00m		2	15.00	0.90		27.00
Ch 75.00m to Ch 90.00m		2	15.00	0.90		27.0
Ch 90.00m to Ch 105.00m		2	15.00	0.90		27.0
Ch 105.00m to Ch 120.00m		2	15.00	0.90		27.0
Ch 120.00m to Ch 132.00m		2	12.00	0.90		21.6
Ch 00.00m to Ch 15.00m **(5th cross road) (W0465)**		2	15.00	0.90		27
Ch 15.00m to Ch 30.00m		2	15.00	0.90		27
Ch 30.00m to Ch 45.00m		2	15.00	0.90		27

01.02.2024

Asst. Executive Engineer
Project Division

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
45.00m to Ch 60.00m		2	15.00	0.90		27.00
60.00m to Ch 75.00m		2	15.00	0.90		27.00
75.00m to Ch 90.00m		2	15.00	0.90		27.00
90.00m to Ch 105.00m		2	15.00	0.90		27.00
105.00m to Ch 120.00m		2	15.00	0.90		27.00
120.00m to Ch 139.50m		2	19.50	0.90		35.10
00.00m to Ch 15.00m (5th cross continue road)		2	15.00	0.90		27.00
Ch 15.00m to Ch 30.00m		2	15.00	0.90		27.00
Ch 30.00m to Ch 45.00m		2	15.00	0.90		27.00
Ch 45.00m to Ch 60.00m		2	15.00	0.90		27.00
Ch 60.00m to Ch 75.00m		2	15.00	0.90		27.00
Ch 75.00m to Ch 90.00m		2	15.00	0.90		27.00
Ch 90.00m to Ch 105.00m		2	15.00	0.90		27.00
Ch 105.00m to Ch 120.00m		2	15.00	0.90		27.00
Ch 120.00m to Ch 135.00m		2	15.00	0.90		27.00
Ch 135.00m to Ch 150.00m		2	15.00	0.90		27.00
Ch 150.00m to Ch 165.00m		2	15.00	0.90		27.00
Ch 165.00m to Ch 180.00m		2	15.00	0.90		27.00
Ch 180.00m to Ch 195.50m		2	15.50	0.90		27.90
Saraipalya						
Thanisandra Mn RHS						
Ch 00.00m to Ch 15.00m **(Brundavan road) (W1108)**		1	15.00	0.90		13.50
Ch 15.00m to Ch 30.00m		1	15.00	0.90		13.50
Ch 30.00m to Ch 45.00m		1	15.00	0.90		13.50
Ch 45.00m to Ch 60.00m		1	15.00	0.90		13.50
Ch 60.00m to Ch 75.00m		1	15.00	0.90		13.50
Ch 75.00m to Ch 90.00m		1	15.00	0.90		13.50
Ch 90.00m to Ch 105.00m		1	15.00	0.90		13.50
Ch 105.00m to Ch 123.00m		2	18.00	0.90		32.40
Ch 00.00m to Ch 15.00m **(Gupta layout tar factory road) (W1827)**		2	15.00	0.90		27.00
Ch 15.00m to Ch 30.00m		2	15.00	0.90		27.00
Ch 30.00m to Ch 45.00m		2	15.00	0.90		27.00
Ch 45.00m to Ch 60.00m		2	15.00	0.90		27.00
Ch 60.00m to Ch 75.00m		2	15.00	0.90		27.00
Ch 75.00m to Ch 90.00m		2	15.00	0.90		27.00

01.02.2024

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Description	Unit	No's	Length	Width	Depth	Quantity
[illegible] to Ch 135.00m		2	15.00	0.90		27.00
135.00m to Ch 120.00m		1	15.00	0.90		13.50
120.00m to Ch 135.00m		1	15.00	0.90		13.50
135.00m to Ch 150.00m		1	15.00	0.90		13.50
150.00m to Ch 165.00m		1	15.00	0.90		13.50
165.00m to Ch 180.00m		1	15.00	0.90		13.50
180.00m to Ch 195.00m		1	15.00	0.90		13.50
195.00m to Ch 210.00m		1	15.00	0.90		13.50
210.00m to Ch 225.20m		1	15.20	0.90		13.68
Total Quantity - Sqm						1547.10

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
Measurement Recorded on :						
Item No. 3(B)-2. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking the clods complete as per specifications.						
MUNICHENNAHALLI (BHAGYASHREE LAYOUT)						
For Drain Desilt						
Dasarahalli (Ishuvaneshwari nagar)						
Ch 00.00m to Ch 15.00m (3rd cross road) (WD4555)		2	15.00	0.60	0.30	5.40
Ch 15.00m to Ch 30.00m		2	15.00	0.60	0.30	5.40
Ch 30.00m to Ch 45.00m		2	15.00	0.60	0.30	5.40
Ch 45.00m to Ch 60.00m		2	15.00	0.60	0.30	5.40
Ch 60.00m to Ch 75.00m		2	15.00	0.60	0.30	5.40
Ch 75.00m to Ch 90.00m		2	15.00	0.60	0.30	5.40
Ch 90.00m to Ch 105.00m		2	15.00	0.60	0.30	5.40
Ch 105.00m to Ch 120.00m		2	15.00	0.60	0.30	5.40
Ch 120.00m to Ch 135.00m		2	15.00	0.60	0.30	5.40
Ch 135.00m to Ch 156.90m		2	21.90	0.60	0.30	7.68
Ch 00.00m to Ch 15.00m (4th cross road) (WD4451)		2	15.00	0.60	0.30	5.40
Ch 15.00m to Ch 30.00m		2	15.00	0.60	0.30	5.40
Ch 30.00m to Ch 45.00m		2	15.00	0.60	0.30	5.40
Ch 45.00m to Ch 60.00m		2	15.00	0.60	0.30	5.40
Ch 60.00m to Ch 75.00m		2	15.00	0.60	0.30	5.40
Ch 75.00m to Ch 90.00m		2	15.00	0.60	0.30	5.40
Ch 90.00m to Ch 105.00m		2	15.00	0.60	0.30	5.40
Ch 105.00m to Ch 120.00m		2	15.00	0.60	0.30	5.40
Ch 120.00m to Ch 132.00m		2	12.00	0.60	0.30	4.32
Ch 00.00m to Ch 15.00m (5th cross road) (WD4455)		2	15.00	0.60	0.30	5.40
Ch 15.00m to Ch 30.00m		2	15.00	0.60	0.30	5.40
Ch 30.00m to Ch 45.00m		2	15.00	0.60	0.30	5.40
Ch 45.00m to Ch 60.00m		2	15.00	0.60	0.30	5.40
Ch 60.00m to Ch 75.00m		2	15.00	0.60	0.30	5.40
Ch 75.00m to Ch 90.00m		2	15.00	0.60	0.30	5.40
Ch 90.00m to Ch 105.00m		2	15.00	0.60	0.30	5.40
Ch 105.00m to Ch 120.00m		2	15.00	0.60	0.30	5.40
Ch 120.00m to Ch 139.50m		2	19.50	0.60	0.30	7.02

8-02-2024

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
Ch 00.00m to Ch 15.00m **(5th cross continue road)**		2	15.00	0.60	0.30	5.40
Ch 15.00m to Ch 30.00m		2	15.00	0.60	0.30	5.40
Ch 30.00m to Ch 45.00m		2	15.00	0.60	0.30	5.40
Ch 45.00m to Ch 60.00m		2	15.00	0.60	0.30	5.40
Ch 60.00m to Ch 75.00m		2	15.00	0.60	0.30	5.40
Ch 75.00m to Ch 90.00m		2	15.00	0.60	0.30	5.40
Ch 90.00m to Ch 105.00m		2	15.00	0.60	0.30	5.40
Ch 105.00m to Ch 120.00m		2	15.00	0.60	0.30	5.40
Ch 120.00m to Ch 135.00m		2	15.00	0.60	0.30	5.40
Ch 135.00m to Ch 150.00m		2	15.00	0.60	0.30	5.40
Ch 150.00m to Ch 165.00m		2	15.00	0.60	0.30	5.40
Ch 165.00m to Ch 180.00m		2	15.00	0.60	0.30	5.40
Ch 180.00m to Ch 195.50m		2	15.50	0.60	0.30	5.58
Ch 00.00m to Ch 15.00m **(Saw mill road) (W0992)**		2	15.00	0.60	0.30	5.40
Ch 15.00m to Ch 30.00m		2	15.00	0.60	0.30	5.40
Ch 30.00m to Ch 45.00m		2	15.00	0.60	0.30	5.40
Ch 45.00m to Ch 60.00m		2	15.00	0.60	0.30	5.40
Ch 60.00m to Ch 75.00m		2	15.00	0.60	0.30	5.40
Ch 75.00m to Ch 90.00m		2	15.00	0.60	0.30	5.40
Ch 90.00m to Ch 105.00m		2	15.00	0.60	0.30	5.40
Ch 105.00m to Ch 120.00m		2	15.00	0.60	0.30	5.40
Ch 120.00m to Ch 135.00m		2	15.00	0.60	0.30	5.40
Ch 135.00m to Ch 150.00m		2	15.00	0.60	0.30	5.40
Ch 150.00m to Ch 165.00m		2	15.00	0.60	0.30	5.40
Ch 165.00m to Ch 180.00m		2	15.00	0.60	0.30	5.40
Ch 180.00m to Ch 195.00m		2	15.00	0.60	0.30	5.40
Ch 195.00m to Ch 210.00m		2	15.00	0.60	0.30	5.40
Ch 210.00m to Ch 225.00m		2	15.00	0.60	0.30	5.40
Ch 225.00m to Ch 240.00m		2	15.00	0.60	0.30	5.40
Ch 240.00m to Ch 255.00m		2	15.00	0.60	0.30	5.40
Ch 255.00m to Ch 270.00m		2	15.00	0.60	0.30	5.40
Ch 270.00m to Ch 285.00m		2	15.00	0.60	0.30	5.40
Ch 285.00m to Ch 300.00m		2	15.00	0.60	0.30	5.40

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Asst. Executive Engr

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
Ch [illegible].00m to Ch 315.00m		2	15.00	0.60	0.30	5.40
Ch 315.00m to Ch 330.00m		2	15.00	0.60	0.30	5.40
Ch 330.00m to Ch 345.00m		2	15.00	0.60	0.30	5.40
Ch 345.00m to Ch 360.00m		2	15.00	0.60	0.30	5.40
Ch 360.00m to Ch 375.00m		2	15.00	0.60	0.30	5.40
Ch 375.00m to Ch 390.00m		2	15.00	0.60	0.30	5.40
Ch 390.00m to Ch 400.80m		2	10.80	0.60	0.30	3.89
Saraipalya						
Thanisandra Mn RHS						
Ch 00.00m to Ch 15.00m **(Brundavan road) (W1108)**		2	15.00	0.60	0.30	5.40
Ch 15.00m to Ch 30.00m		2	15.00	0.60	0.30	5.40
Ch 30.00m to Ch 45.00m		2	15.00	0.60	0.30	5.40
Ch 45.00m to Ch 60.00m		2	15.00	0.60	0.30	5.40
Ch 60.00m to Ch 75.00m		2	15.00	0.60	0.30	5.40
Ch 75.00m to Ch 90.00m		2	15.00	0.60	0.30	5.40
Ch 90.00m to Ch 105.00m		2	15.00	0.60	0.30	5.40
Ch 105.00m to Ch 123.00m		2	18.00	0.60	0.30	6.48
Ch 00.00m to Ch 15.00m **(Gupta layout tar factory raod) (W1827)**		1	15.00	0.60	0.30	2.70
Ch 15.00m to Ch 30.00m		1	15.00	0.60	0.30	2.70
Ch 30.00m to Ch 45.00m		1	15.00	0.60	0.30	2.70
Ch 45.00m to Ch 60.00m		1	15.00	0.60	0.30	2.70
Ch 60.00m to Ch 75.00m		1	15.00	0.60	0.30	2.70
Ch 75.00m to Ch 90.00m		1	15.00	0.60	0.30	2.70
Ch 90.00m to Ch 105.00m		1	15.00	0.60	0.30	2.70
Ch 105.00m to Ch 120.00m		1	15.00	0.60	0.30	2.70
Ch 120.00m to Ch 135.00m		1	15.00	0.60	0.30	2.70
Ch 135.00m to Ch 150.00m		1	15.00	0.60	0.30	2.70
Ch 150.00m to Ch 165.00m		1	15.00	0.60	0.30	2.70
Ch 165.00m to Ch 180.00m		1	15.00	0.60	0.30	2.70
Ch 180.00m to Ch 195.00m		1	15.00	0.60	0.30	2.70
Ch 195.00m to Ch 210.00m		1	15.00	0.60	0.30	2.70
Ch 210.00m to Ch 225.20m		1	15.20	0.60	0.30	2.74

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
culverts						
Balon factory road culverts(RHS) (W0992)						
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 6.50m		1	6.50	1.40	1.00	9.10
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 5.30m		1	5.30	1.40	1.00	7.42
Ch 0.00m to Ch 5.50m		1	5.50	1.40	1.00	7.70
Ch 0.00m to Ch 5.00m		1	5.00	1.40	1.00	7.00
Ch 0.00m to Ch 5.20m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 5.20m		1	4.50	1.40	1.00	6.30
Balon factory road culverts(LHS) (W0992)						
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 4.90m		1	4.90	1.40	1.00	6.86
Ch 0.00m to Ch 4.70m		1	4.70	1.40	1.00	6.58
Ch 0.00m to Ch 5.80m		1	5.80	1.40	1.00	8.12
Ch 0.00m to Ch 5.60m		1	5.60	1.40	1.00	7.84
Ch 0.00m to Ch 5.90m		1	5.90	1.40	1.00	8.26
Ch 0.00m to Ch 5.70m		1	5.70	1.40	1.00	7.98
1st Main road culverts (W0988)						
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 4.50m		1	4.50	1.40	1.00	6.30
Ch 0.00m to Ch 3.90m		1	3.90	1.40	1.00	5.46
1st Sub cross road culverts (W0998)						
Ch 0.00m to Ch 4.00m		1	4.00	1.40	1.00	5.60
Ch 0.00m to Ch 3.70m		1	3.70	1.40	1.00	5.18
govt school road culvert (W1517)						
Ch 0.00m to Ch 4.80m		1	4.80	1.40	1.00	6.72

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Asst. Executive Engineer
Project Division

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
Karehalya (Connecting culvert) (W1827)						
Ch 0.00m to Ch 5.70m		1	5.70	1.40	1.20	9.58
Ch 0.00m to Ch 8.30m		1	8.30	1.40	1.20	13.94
Masjid road culverts (W1567)						
Ch 0.00m to Ch 6.80m (LHS)		1	6.80	1.70	1.00	11.56
Ch 0.00m to Ch 5.70m (LHS)		1	5.70	1.70	1.00	9.69
Ch 0.00m to Ch 6.90m (LHS)		1	6.90	1.70	1.00	11.73
Ch 0.00m to Ch 5.40m (LHS)		1	5.40	1.70	1.00	9.18
Ch 0.00m to Ch 5.90m (RHS)		1	5.90	1.40	1.00	8.26
Dasarahalli extension						
Ch 0.00m to Ch 7.30m (Main road culvert)		1	7.30	1.70	1.00	12.41
Ch 0.00m to Ch 5.30m (2nd cross road culvert)		1	5.30	1.70	1.00	9.01
Ch 0.00m to Ch 6.00m (3rd cross road culvert)		1	6.00	1.70	1.00	10.20
Ch 0.00m to Ch 7.20m (cross culvert)		1	7.20	1.70	1.00	12.24
Ch 0.00m to Ch 7.20m (curve road end culvert)		1	7.20	1.70	1.00	12.24
School road culverts (W1779)						
Ch 0.00m to Ch 5.60m (1st cross LHS)		1	5.60	1.40	1.00	7.84
Ch 0.00m to Ch 5.00m (1st cross RHS)		1	5.00	1.70	1.00	8.50
Ch 0.00m to Ch 5.00m (2nd cross LHS)		1	5.00	1.70	1.00	8.50
Ch 0.00m to Ch 5.10m (2nd cross RHS)		1	5.10	1.40	1.00	7.14
Ch 0.00m to Ch 5.00m (3rd cross LHS)		1	5.00	1.70	1.00	8.50
Ch 0.00m to Ch 5.10m (3rd cross RHS)		1	5.10	1.40	1.00	7.14
Ch 0.00m to Ch 5.00m (4th cross LHS)		1	5.00	1.40	1.00	7.00
Ch 0.00m to Ch 4.30m (4th cross RHS)		1	4.30	1.40	1.00	6.02
Railway men layout culverts						
Ch 0.00m to Ch 7.60m (PG opp culvert)		1	7.60	1.40	1.00	10.64
Ch 0.00m to Ch 7.60m (2nd main road culvert)		1	7.60	1.70	1.00	12.92
Ch 0.00m to Ch 8.30m (3rd main road culvert)		1	8.30	1.70	1.00	14.11
Ch 0.00m to Ch 9.20m (4th main road culvert)		1	9.20	1.70	1.00	15.64
2nd main road inside culverts						
Ch 0.00m to Ch 7.30m (1st cross RHS culvert)		1	7.30	1.70	1.00	12.41
Ch 0.00m to Ch 5.60m (2nd cross RHS culvert)		1	5.60	1.70	1.00	9.52
Ch 0.00m to Ch 5.10m (3rd cross RHS culvert)		1	5.10	1.70	1.00	8.67
RCC DRAIN						
Dasarahalli Extension						
Ch 0.00m to Ch 30.00m **(2nd Cross road RHS) (W0585)**		1	30.00	1.10	1.00	33.00
Ch 30.00m to Ch 45.50m		1	15.50	1.10	1.00	17.05

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Asst. Executive Engineer
Project Division

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	Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
	Saraipalya						
	Ch 0.00m to Ch 30.00m **(Masjid road drain) (W1567)**		1	30.00	1.10	1.00	33.00
	Ch 30.00m to Ch 60.00m		1	30.00	1.10	1.00	33.00
	Ch 60.00m to Ch 90.00m		1	30.00	1.10	1.00	33.00
	Ch 90.00m to Ch 120.00m		1	30.00	1.10	1.00	33.00
	Ch 120.00m to Ch 150.00m		1	30.00	1.10	1.00	33.00
	Ch 150.00m to Ch 180.00m		1	30.00	1.10	1.00	33.00
	Ch 180.00m to Ch 203.00m		1	23.00	1.10	1.00	25.30
	Ch 0.00m to Ch 16.60m **(Connecting drain) (W1827)**		1	16.60	1.10	1.00	18.26
	Ch 0.00m to Ch 25.00m **(Balon factory road RHS) (W0992)**		1	25.00	1.10	1.00	27.50
	Ch 00.00m to Ch 18.50m		1	18.50	1.10	1.00	20.35
	Ch 00.00m to Ch 19.00m		1	19.00	1.10	1.00	20.90
	Ch 00.00m to Ch 19.50m		1	19.50	1.10	1.00	21.45
	Ch 00.00m to Ch 13.50m		1	13.50	1.10	1.00	14.85
	Ch 00.00m to Ch 19.80m		1	19.80	1.10	1.00	21.78
	Ch 00.00m to Ch 17.00m		1	17.00	1.10	1.00	18.70
	Ch 00.00m to Ch 21.20m		1	21.20	1.10	1.00	23.32
	Ch 00.00m to Ch 34.00m		1	34.00	1.10	1.00	37.40
	Ch 00.00m to Ch 36.50m		1	36.50	1.10	1.00	40.15
	Ch 00.00m to Ch 25.20m		1	25.20	1.10	1.00	27.72
	Ch 00.00m to Ch 24.80m		1	24.80	1.10	1.00	27.28
	Ch 00.00m to Ch 25.50m		1	25.50	1.10	1.00	28.05
	Ch 00.00m to Ch 25.40m		1	25.40	1.10	1.00	27.94
	Ch 00.00m to Ch 24.60m		1	24.60	1.10	1.00	27.06
	Ch 00.00m to Ch 22.50m		1	22.50	1.10	1.00	24.75
	Ch 0.00m to Ch 18.80m **(Balon factory road LHS) (W0992)**		1	18.80	1.10	1.00	20.68
	Ch 00.00m to Ch 18.90m		1	18.90	1.10	1.00	20.79
	Ch 00.00m to Ch 17.80m		1	17.80	1.10	1.00	19.58
	Ch 00.00m to Ch 30.00m		1	30.00	1.10	1.00	33.00
	Ch 30.00m to Ch 54.50m		1	24.50	1.10	1.00	26.95
	Ch 00.00m to Ch 30.00m		1	30.00	1.10	1.00	33.00
	Ch 30.00m to Ch 60.00m		1	30.00	1.10	1.00	33.00
	Ch 60.00m to Ch 90.00m		1	30.00	1.10	1.00	33.00

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Asst. Executive Engineer
Project Division
Yelahanka Zone

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	Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
	Ch 90.00m to Ch 106.00m		1	16.00	1.10	1.00	17.60
	Ch 00.00m to Ch 30.00m		1	30.00	1.10	1.00	33.00
	Ch 30.00m to Ch 52.20m		1	22.20	1.10	1.00	24.42
	Ch 00.00m to Ch 25.30m		1	25.30	1.10	1.00	27.83
	Ch 00.00m to Ch 27.20m		1	27.20	1.10	1.00	29.92
	Ch 00.00m to Ch 26.50m		1	26.50	1.10	1.00	29.15
	Ch 00.00m to Ch 23.80m		1	23.80	1.10	1.00	26.18
	Ch 0.00m to Ch 30.00m **(1st cross LHS) (W1481)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 60.50m		1	30.50	0.90	1.00	27.45
	Ch 0.00m to Ch 30.00m **(1st cross RHS) (W1479)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 50.50m		1	20.50	0.90	1.00	18.45
	Ch 0.00m to Ch 30.00m **(2nd cross LHS) (W1471)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 60.50m		1	30.50	0.90	1.00	27.45
	Ch 0.00m to Ch 30.00m **(2nd cross RHS) (W1469)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 46.00m		1	16.00	0.90	1.00	14.40
	Ch 0.00m to Ch 30.00m **(3rd cross LHS) (W1463)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 57.00m		1	27.00	0.90	1.00	24.30
	Ch 0.00m to Ch 30.00m **(3rd cross RHS) (W1461)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 46.00m		1	25.60	0.90	1.00	23.04
	Ch 0.00m to Ch 30.00m **(4th cross LHS) (W1455)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 50.20m		1	20.20	0.90	1.00	18.18
	Ch 0.00m to Ch 30.00m **(4th cross RHS) (W1451)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 43.50m		1	13.50	0.90	1.00	12.15
	Ch 0.00m to Ch 30.00m **(1st sub cross) (W0998)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 44.70m		1	14.70	0.90	1.00	13.23
	Ch 0.00m to Ch 31.00m **(sub cross A) (W1449)**		1	31.00	0.90	1.00	27.90
	Ch 0.00m to Ch 31.00m **(sub cross B) (W1445)**		1	31.00	0.90	1.00	27.90
	Ch 0.00m to Ch 30.00m **(1st Main road) (W0988)**		1	30.00	0.90	1.00	27.00
	Ch 30.00m to Ch 61.10m		1	31.10	0.90	1.00	27.99

08.02.2024

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
[illegible] to Ch 30.00m (6th cross RHS) (W1447)		1	30.00	0.90	1.00	27.00
30.00m to Ch 51.00m		1	21.00	0.90	1.00	18.90
0.00m to Ch 30.00m (6th cross RHS) (W1443)		1	30.00	0.90	1.00	27.00
30.00m to Ch 56.00m		1	26.00	0.90	1.00	23.40
0.00m to Ch 30.00m (school road opp) (W1467)	nos	1	30.00	0.90	1.00	27.00
30.00m to Ch 60.00m		1	30.00	0.90	1.00	27.00
60.00m to Ch 72.00m		1	12.00	0.90	1.00	10.80
necting drain @						
0.00m to Ch 30.00m		1	30.00	1.10	1.00	33.00
30.00m to Ch 60.00m		1	30.00	1.10	1.00	33.00
60.00m to Ch 72.00m		1	10.00	1.10	1.00	11.00
Total Quantity Cum						278.10

Assistant Engineer

Assistant Executive Engineer
Project Director
Vaishnavi Cons
BBMP, Bangalore - 32

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
Measurement Recorded on :						
KSRB 4-1.2 : Providing and laying in **position plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications.						
culverts						
Balon factory road culverts(RHS) (W0992)						
Ch 0.00m to Ch 4.00m		1	4.00	1.40	0.15	0.84
Ch 0.00m to Ch 4.00m		1	4.00	1.40	0.15	0.84
Ch 0.00m to Ch 4.00m		1	4.00	1.40	0.15	0.84
Ch 0.00m to Ch 4.00m		1	4.00	1.40	0.15	0.84
Ch 0.00m to Ch 4.00m		1	4.00	1.40	0.15	0.84
Ch 0.00m to Ch 6.50m		1	6.50	1.40	0.15	1.37
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 5.30m		1	5.30	1.40	0.15	1.11
Ch 0.00m to Ch 5.50m		1	5.50	1.40	0.15	1.16
Ch 0.00m to Ch 5.00m		1	5.00	1.40	0.15	1.05
Ch 0.00m to Ch 5.20m		1	5.20	1.40	0.15	1.09
Ch 0.00m to Ch 5.20m		1	5.20	1.40	0.15	1.09
Balon factory road culverts(LHS) (W0992)						
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 4.90m		1	4.90	1.40	0.15	1.03
Ch 0.00m to Ch 4.70m		1	4.70	1.40	0.15	0.99
Ch 0.00m to Ch 5.80m		1	5.80	1.40	0.15	1.22
Ch 0.00m to Ch 5.60m		1	5.60	1.40	0.15	1.18
Ch 0.00m to Ch 5.90m		1	5.90	1.40	0.15	1.24
Ch 0.00m to Ch 5.70m		1	5.70	1.40	0.15	1.20
1st Main road culverts (W0988)						
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 4.50m		1	4.50	1.40	0.15	0.95
Ch 0.00m to Ch 3.90m		1	3.90	1.40	0.15	0.82

15/4/2024

Asst. Executive Engineer
Project Division
Yelahanka Zone

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Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
1st S... cross road culverts (W0998)						
Ch 0.00m to Ch 4.00m		1	4.00	1.40	0.15	0.84
Ch 0.00m to Ch 3.70m		1	3.70	1.40	0.15	0.78
govt school road (W1517)						
Ch 0.00m to Ch 4.80m		1	4.80	1.40	0.15	1.01
Saraipalya (Connecting culvert) (W1827)						
Ch 0.00m to Ch 5.70m		1	5.70	1.40	0.15	1.20
Ch 0.00m to Ch 8.30m		1	8.30	1.40	0.15	1.74
Masjid road culverts (W1567)						
Ch 0.00m to Ch 6.80m (LHS)		1	6.80	1.70	0.15	1.73
Ch 0.00m to Ch 5.70m (LHS)		1	5.70	1.70	0.15	1.45
Ch 0.00m to Ch 6.90m (LHS)		1	6.90	1.70	0.15	1.76
Ch 0.00m to Ch 5.40m (LHS)		1	5.40	1.70	0.15	1.38
Ch 0.00m to Ch 5.90m (RHS)		1	5.90	1.40	0.15	1.24
Dasarahalli extension						
Ch 0.00m to Ch 7.30m (Main road culvert)		1	7.30	1.70	0.15	1.86
Ch 0.00m to Ch 5.30m (2nd cross road culvert)		1	5.30	1.70	0.15	1.35
Ch 0.00m to Ch 6.00m (3rd cross road culvert)		1	6.00	1.70	0.15	1.53
Ch 0.00m to Ch 7.20m (cross culvert)		1	7.20	1.70	0.15	1.84
Ch 0.00m to Ch 7.20m (curve road end culvert)		1	7.20	1.70	0.15	1.84
School road culverts (W1779)						
Ch 0.00m to Ch 5.60m (1st cross LHS)		1	5.60	1.40	0.15	1.18
Ch 0.00m to Ch 5.00m (1st cross RHS)		1	5.00	1.70	0.15	1.28
Ch 0.00m to Ch 5.00m (2nd cross LHS)		1	5.00	1.70	0.15	1.28
Ch 0.00m to Ch 5.10m (2nd cross RHS)		1	5.10	1.40	0.15	1.07
Ch 0.00m to Ch 5.00m (3rd cross LHS)		1	5.00	1.70	0.15	1.28
Ch 0.00m to Ch 5.10m (3rd cross RHS)		1	5.10	1.40	0.15	1.07
Ch 0.00m to Ch 5.00m (4th cross LHS)		1	5.00	1.40	0.15	1.05
Ch 0.00m to Ch 4.30m (4th cross RHS)		1	4.30	1.40	0.15	0.90
Railway men layout culverts						
Ch 0.00m to Ch 7.60m (PG opp culvert)		1	7.60	1.40	0.15	1.60
Ch 0.00m to Ch 7.60m (2nd main road culvert)		1	7.60	1.70	0.15	1.94
Ch 0.00m to Ch 8.30m (3rd main road culvert)		1	8.30	1.70	0.15	2.12
Ch 0.00m to Ch 9.20m (4th main road culvert)		1	9.20	1.70	0.15	2.35

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	Description	UNIT	No's	LENGTH	WIDTH	DEPTH	QUANTITY
	2nd main road inside culverts						
	Ch 0.00m to Ch 7.30m (1st cross RHS culvert)		1	7.30	1.70	0.15	1.86
	Ch 0.00m to Ch 5.60m (2nd cross RHS culvert)		1	5.60	1.70	0.15	1.43
	Ch 0.00m to Ch 5.10m (3rd cross RHS culvert)		1	5.10	1.70	0.15	1.30
	RCC DRAIN						
	Dasarahalli Extension						
	Ch 0.00m to Ch 30.00m **(2nd Cross road RHS) (W0585)**		1	30.00	1.10	0.15	4.95
	Ch 30.00m to Ch 45.50m		1	15.50	1.10	0.15	2.56
	Saraipalya						
	Ch 0.00m to Ch 30.00m **(Masjid road drain) (W1567)**		1	30.00	1.10	0.15	4.95
	Ch 30.00m to Ch 60.00m		1	30.00	1.10	0.15	4.95
	Ch 60.00m to Ch 90.00m		1	30.00	1.10	0.15	4.95
	Ch 90.00m to Ch 120.00m		1	30.00	1.10	0.15	4.95
	Ch 120.00m to Ch 150.00m		1	30.00	1.10	0.15	4.95
	Ch 150.00m to Ch 180.00m		1	30.00	1.10	0.15	4.95
	Ch 180.00m to Ch 203.00m		1	23.00	1.10	0.15	3.80
	Ch 0.00m to Ch 16.60m **(Connecting drain) (W1827)**		1	16.60	1.10	0.15	2.74
	Ch 0.00m to Ch 25.00m **(Balon factory road RHS) (W0992)**		1	25.00	1.10	0.15	4.13
	Ch 00.00m to Ch 18.50m		1	18.50	1.10	0.15	3.05
	Ch 00.00m to Ch 19.00m		1	19.00	1.10	0.15	3.14
	Ch 00.00m to Ch 19.50m		1	19.50	1.10	0.15	3.22
	Ch 00.00m to Ch 13.50m		1	13.50	1.10	0.15	2.23
	Ch 00.00m to Ch 19.80m		1	19.80	1.10	0.15	3.27
	Ch 00.00m to Ch 17.00m		1	17.00	1.10	0.15	2.81
	Ch 00.00m to Ch 21.20m		1	21.20	1.10	0.15	3.50
	Ch 00.00m to Ch 34.00m		1	34.00	1.10	0.15	5.61
	Ch 00.00m to Ch 36.50m		1	36.50	1.10	0.15	6.02
	Ch 00.00m to Ch 25.20m		1	25.20	1.10	0.15	4.16
	Ch 00.00m to Ch 24.80m		1	24.80	1.10	0.15	4.09
	Ch 00.00m to Ch 25.50m		1	25.50	1.10	0.15	4.21
	Ch 00.00m to Ch 25.40m		1	25.40	1.10	0.15	4.19
	Ch 00.00m to Ch 24.60m		1	24.60	1.10	0.15	4.06
	Ch 00.00m to Ch 22.50m		1	22.50	1.10	0.15	3.71

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